IAP7 Rec'd PCT/PTO 16 JUN 2006

Send to: Mail Stop PCT, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450 Express Mail No. EV 809 054 820US

**FORM PTO-1390** U.S. DEPARTMENT OF COMMERCE ATTORNEY'S DOCKET NUMBER (REV. 7-2005) PATENT AND TRADEMARK OFFICE 11281-109-999 TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO. (if known, see 37CFR 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/KR2004/003284 December 14, 2004 December 16, 2003 TITLE OF INVENTION FLAT PLATE HEAT TRANSFER DEVICE AND METHOD FOR MANUFACTURING THE SAME APPLICANT(S) FOR DO/EO/US KIM, Hyun-Tae; LEE, Yong-Duck; OH, Min-Jung; JANG, Sung-Wook Applicant herewith submits to the United States Designated/ Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. 冈 This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The U.S. has been elected (Article 31). 5. Ø A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9.  $\boxtimes$ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11. to 20. below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12.  $\boxtimes$ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13.  $\boxtimes$ A preliminary amendment. 14. An Application Data Sheet under 37 CFR 1.76. 15. A substitute specification. 16. A power of attorney and/or change of address letter. 17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter 2 and 37 CFR 1.821- 1.825. 18. A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 20.  $\boxtimes$ Other items or information: PCT Request; Forms PCT/IB/306, PCT/IB/304, PCT/ISA/210, and PCT/ISA/237

This collection of information is required by 37 CPR 1.414 and 1.49.1-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 111 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademar., Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

US APPLICATION N	1.9×1583	514	PCT/KR2004/003		N NO.	11281-		OCKET NUMBER 99	
The following fees are submitted:									
21. Basic national fee									
22. Examination fee									
Was the Written Opinion prepared by the ISA/USPTO or did the International									
Preliminary Examination Report prepared by the USPTO indicate that all									
filed claims in this U.S. application satisfy provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and industrial capability)?									
i) Yes (\$0.00)									
☑ ij No (\$200.00)									
	\$200.00								
23. Search fee									
examination report prepared by the USPTO indicate that all claims satisfy									
provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and									
industrial capability)?									
i) Yes (\$0.00)									
ii) If no:									
(a) A Search Fee has been paid on the international application to the USPTO as an International Search Authority. (\$100.00)									
(b) An International Search Report prepared by an ISA other than the									
US and provided to the Office or previously communicated to the									
US by the IB. (\$400.00) \$400.00									
(c) All other situations (\$500.00)									
TOTAL OF CALCULATIONS =							\$	\$900.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding								·	
sequence listing of computer programs listing filed in electronic medium). The fee is \$250 for									
	al 50 sheets of pape			,			ŀ		
Total Sheets	Extra Sheets	Number	of each additional 50 or 1	fraction	RATE				
		thereof	(round up to a whole num	nber).					
42 -100 0 /50				x 250.00				\$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest							\$	\$0.00	
claimed priority date (37 CFR 1.492 (e)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE X							<u> </u>		
Total Claims							\$650.00		
					\$50.00		<b> </b>	\$650.00	
				\$200.00	= \$0.00				
☐ MULTIPLE DEPENDENT CLAIM(S) (if applicable) + 360					360.00			\$0.00	
TOTAL OF ABOVE CALCULATIONS=							\$	\$1550.00	
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced								<b>#0.00</b>	
by 50%.							- \$	\$0.00	
SUBTOTAL =							\$	\$1550.00	
Surcharge of \$130.00 for furnishing the English Translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).							ļ	\$0.00	
							<del></del>	01550.00	
TOTAL NATIONAL FEE							\$	\$1550.00	
Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be							\$	\$0.00	
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). 0 x \$40.00 per property									
TOTAL FEES ENCLOSED							\$	\$1550.00	
						Amou	nt to	be refunded:	
						charged:			
a. A check in the amount of \$ to cover the above fees is enclosed.									
b. This is an estimate of the fees due. Please charge Deposit Account									
No. 50-3013 to cover the required fees. A copy of this sheet is enclosed.									
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit									
Account No. 50-3013. A copy of this sheet is enclosed.									
Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.									
24. All correspondence for this application should be mailed to JONES DAY 20583.									
25. All tele	phone inquiries sho	ould be made	to .						
For Brian M. Rothery 35,340									
Lawrence R. Gabuzda 51,711						June 16, 2006			
		SIGNATU	IDE		REG. NO.			DATE	